

**REPORT/RECOMMENDATION TO THE BOARD OF SUPERVISORS
OF SAN BERNARDINO COUNTY, CALIFORNIA
AND RECORD OF ACTION**

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December 7, 2004

FROM: **PATRICK J. MEAD**, Director
Department of Public Works - Flood Control

SUBJECT: **AMENDMENT 1 TO CONTRACT 04-458 WITH TETRA TECH, INC FOR THE
PREPARATION OF PLANS AND SPECIFICATIONS FOR EMERGENCY WATERSHED
PROTECTION MEASURES IN THE AREA OF DEVORE**

RECOMMENDATION: Acting as the governing body of the Flood Control District (District), approve Amendment No. 1 to Contract No. 04-458 with Tetra Tech, Inc. (Tetra Tech) in the amount of \$50,000, increasing the contract from \$73,600 to \$123,600, for additional engineering services relative to emergency watershed protection measures in the Devore area.

BACKGROUND INFORMATION: As a result of last year's wildfires, the watershed above the Devore area was denuded of vegetation. Subsequent storms and the loss of vegetative cover caused significant mud and rock flow through the canyons that damaged several structures. In response, the Board of Supervisors approved Contract No. 04-458 with Tetra Tech in the amount of \$73,600 on June 8, 2004, for the preparation of construction drawings, specifications and bid documents for the construction of removable debris barriers in the Devore area, and the preparation of three alternative analyses of sediment/debris control measures upstream of Greenwood Avenue. This contract was the result of a Request for Proposal (RFP) process approved by the Board on March 16, 2004.

During October 2004, there were a series of rainstorms that caused further mudflows into the community of Devore, in some cases overtopping the existing k-rails installed by the District along Greenwood Avenue. The District, the U.S. Geological Service, the U.S. Forest Service, and the Natural Resources Conservation Service subsequently conducted a review of the stream and watershed above Greenwood Avenue. It was observed that the stream continues to headcut and erode and that the high vertical slopes now formed (measuring as high as 30 feet) pose a safety and flooding concern for residents downstream. In accordance with Amendment 1 to Contract No. 04-458, Tetra Tech will be tasked with providing the District with plans and specifications for shaping and stabilizing the high, vertical banks and providing controls along the invert of the stream to preclude further headcutting. These actions will significantly lessen the risk of slope failures and the potential for flows escaping the banks of the stream and causing damage to adjacent properties.

Tetra Tech will also prepare two additional alternative analyses of sediment/debris control measures, which may be used in conjunction with three alternatives already developed. The additional alternatives to be studied include a large debris basin and a series of smaller check dams located west of Greenwood Avenue in an undeveloped area where flows are proposed to be developed.

The District is recommending an amendment to the existing contract with Tetra Tech, rather than issuing a new RFP for these additional services because of the urgency to complete the emergency watershed protection measures prior to the approaching winter season. Also, Tetra Tech is extremely familiar with this project based on its previous work to date. Staff has reviewed Tetra Tech's cost proposal and has determined that the \$50,000 is a fair and reasonable amount for the additional services.

Record of Action of the Board of Supervisors

AMENDMENT NO. 1 TO CONTRACT NO. 04-458 WITH TETRA TECH, INC FOR THE PREPARATION OF PLANS AND SPECIFICATIONS FOR EMERGENCY WATERSHED PROTECTION MEASURES IN THE AREA OF DEVORE

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REVIEW AND APPROVAL BY OTHERS: This item was reviewed by County Counsel (Charles S. Scolastico, Deputy, 387-5481) on November 29, 2004, and by the County Administrative Office (Tom Forster, Administrative Analyst, 387-4635) on November 24, 2004.

FINANCIAL IMPACT: The cost for the additional proposed professional services is not to exceed \$50,000, increasing the contract amount from \$73,600 to \$123,600. The District will fund the contract. Funding is available in the District's Zone 2 budget for fiscal year 2004/2005

COST REDUCTION REVIEW: The County Administrative Office has reviewed this item and concurs with the District's recommendation because the requested services are needed to proceed with the emergency watershed protection measures in the Devore area. These measures are fundamental for improving flood protection for residents of the Devore area.

SUPERVISORIAL DISTRICT: 2nd.

PRESENTER: Patrick J. Mead, 387-7906.

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